

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	364	(715/511).CCLS.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/03/17 15:50
S2	8	("5493677"   "5499365"   "5557793"   "5758153"   "5890176"   "6230312"   "6263491"   "6381628").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 17:02
S3	18	("3427443"   "3551659"   "4819233"   "5579520"   "5724584"   "5752038"   "5790858"   "5806061"   "5917998"   "5978785"   "5987247"   "6023696"   "6088717"   "6112304"   "6131095"   "6134559").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 17:32
S4	239	(XML NEAR2 document\$1) and metadata and version\$1 and fragment\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 17:59
S5	194	S4 and (date and time)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 18:00
S6	50	broadcast\$4 and S5	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 18:01
S7	56	broadcast\$4 and S4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 18:06
S8	23	television and S7	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 18:10
S9	21	television and S6	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 18:10
S10	33	("20020099687"   "20020169679"   "20030028685"   "20030051236"   "20030074206"   "20030084120"   "20030167277"   "20030167355"   "20030172196"   "20030177282"   "5218699"   "5430876"   "5689700"   "5748962"   "5761494"   "5822580"   "5903753"   "5937406"   "5956509"   "6061743"   "6175878"   "6209124"   "6256678"   "6275871"   "6282581"   "6298354"   "6349343"   "6353830"   "6360266"   "6418448"   "6430593"   "6442548"   "6446253").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/16 18:12

*Handwritten:* 3/26/07

## EAST Search History

S11	0	("2005/0165815").URPN.	USPAT	OR	ON	2006/03/16 18:26
S12	3	("6904454").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/03/16 18:47
S13	12	(stor\$3 or sav\$3) near2 (XML or "extensible markup language") Near1 (document\$1 or (webpage\$1 or web adj page\$1)) with version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 16:02
S14	1	"L12" with (timestamp or "time stamp")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 15:55
S15	15	"L1" with (timestamp or "time stamp")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 15:56
S16	854	"L1" and (timestamp or "time stamp")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 15:57
S17	1	S13 and (timestamp or "time stamp")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 16:06
S18	6	S13 and (time and date)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 16:07
S19	38	(stor\$3 or sav\$3) near2 (XML or "extensible markup language") Near1 (document\$1 or (webpage\$1 or web adj page\$1)) SAME version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 16:05
S20	367	(stor\$3 or sav\$3) near2 (XML or "extensible markup language") Near1 (document\$1 or (webpage\$1 or web adj page\$1)) and version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 16:06
S21	58	S20 and (timestamp or "time stamp")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 16:07
S22	222	S20 and (time and date)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 16:07

## EAST Search History

S23	2	("20030097365").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/03/17 17:14
S24	2	("5499365").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/03/17 17:16
S25	6	XML SAME creation same stor\$3 same fragment	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 17:21
S26	5	S25 and version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 17:22
S27	1194	XML and creation and stor\$3 and fragment	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 17:21
S28	5	S26 and version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 17:22
S29	926	S27 and version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 17:22
S30	360861	S29 and (timestamp or "time stamp") or (time and date)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 17:23
S31	673	S29 and ((timestamp or "time stamp") or (time and date))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/17 17:24
S32	5	("5701451"   "5928335"   "6012098"   "6249844"   "6366947").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/17 17:50
S33	2	("20020152244").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/03/17 18:12
S34	2	("6226675").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/03/17 18:13

## EAST Search History

S35	4455	document\$1 same (stor\$3 or sav\$3) same (version or versioning)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/19 18:07
S36	365	XML same S35	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/19 18:51
S37	4	S36 same fragment\$1	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/19 18:09
S38	64	fragment\$1 and S36	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/19 18:21
S39	1311	XML and S35	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/19 19:02
S40	169	fragment and S39	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/03/19 18:22
S41	7	("20020184401"   "20030065659"   "20030140308"   "20040064466"   "20040088415"   "6604100"   "6636845").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/19 18:39
S42	0	("6836778").URPN.	USPAT	OR	ON	2006/03/19 18:40
S43	0	("6836778").URPN.	USPAT	OR	ON	2006/03/19 18:41
S44	0	("6836778").URPN.	USPAT	OR	ON	2006/03/19 18:41
S45	7	("20020184401"   "20030065659"   "20030140308"   "20040064466"   "20040088415"   "6604100"   "6636845").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/19 18:41
S46	8	("5924116"   "5946697"   "6012126"   "6026413"   "6065058"   "6122666"   "6128627"   "6138141"   "B1 6178461").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/19 18:42
S47	23	("6249844").URPN.	USPAT	OR	ON	2006/03/19 18:43
S48	7	("20020184401"   "20030065659"   "20030140308"   "20040064466"   "20040088415"   "6604100"   "6636845").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/19 18:51
S49	5	("5581760"   "6012098"   "6240429"   "6249844"   "6463440").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/19 18:55

## EAST Search History

S50	3	("6675353").URPN.	USPAT	OR	ON	2006/03/19 18:56
S51	0	("2002/0046235").URPN.	USPAT	OR	ON	2006/03/19 19:04
S52	17	("6253217").URPN.	USPAT	OR	ON	2006/03/19 19:08
S53	5	("5581760"   "6012098"   "6240429"   "6249844"   "6463440").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/19 19:16
S54	3	("6675353").URPN.	USPAT	OR	ON	2006/03/19 19:17
S55	8	("5493677"   "5499365"   "5557793"   "5758153"   "5890176"   "6230312"   "6263491"   "6381628").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/19 19:25
S56	0	("6904454").URPN.	USPAT	OR	ON	2006/03/19 19:26
S57	0	("2004/0015369").URPN.	USPAT	OR	ON	2006/03/19 19:34
S58	2	("20040148567").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 13:14
S59	2	("20020143976").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 13:39
S60	416	(715/511).CCLS.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 13:40
S61	2876	(715/513).CCLS.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 13:40
S62	224797	broadcast\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 13:41
S63	2476	metadata SAME version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 13:44
S64	4859	XML SAME schema	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 13:44
S65	4952	metadata SAME (version\$3 or updat\$4)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 13:45

## EAST Search History

S66	126	S62 and S64 and S65	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 13:45
S67	69	S66 and (time\$stamp or (date NEAR4 time))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:07
S68	1000	document\$1 SAME ((upper or lower) NEAR3 (structure or fragment or element))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:06
S69	4	S65 and S68	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 13:51
S70	233	S68 and (version\$3 or updat\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 15:21
S71	1	S67 and S70	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 13:50
S72	45	S67 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 14:59
S73	0	("2005/0193425").URPN.	USPAT	OR	ON	2006/10/07 14:11
S74	13	("2002/0069218").URPN.	USPAT	OR	ON	2006/10/07 14:34
S75	18	S64 and S70	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 14:59
S76	6	S75 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 15:20
S77	0	("2003/0009472").URPN.	USPAT	OR	ON	2006/10/07 15:19
S78	6	S70 and metadata	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 15:19
S79	2	S78 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:18
S80	0	("2006/0095834").URPN.	USPAT	OR	ON	2006/10/07 15:22

## EAST Search History

S81	1	broadcast\$3 SAME XML SAME schema SAME (segment\$1 or fragment\$1 or section\$1) SAME (version\$3 or updat\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 15:53
S82	764	broadcast\$3 AND XML AND schema AND (segment\$1 or fragment\$1 or section\$1) AND (version\$3 or updat\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 15:54
S83	2	S68 and S82	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 15:52
S84	11	broadcast\$3 SAME XML SAME schema SAME (version\$3 or updat\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 15:53
S85	5	S84 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:05
S86	0	(2004/0015369).CCLS.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 15:56
S87	2	("20040015369").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 16:51
S88	2	("20020152244").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 16:51
S89	2	("5499365").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 18:03
S90	0	("(XMLSAMEschema)and(fragment\$1orsegment\$1orelement\$1)andversion\$3").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/07 18:04
S91	2948	(XML SAME schema) and (fragment\$1 or segment\$1 or element\$1) and version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:15
S92	1474	S91 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:05

## EAST Search History

S93	87	S92 and ((upper or lower) NEAR6 (structure or fragment or element))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:19
S94	16	S93 and ((time\$stamp or (date NEAR4 time)) and metadata)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:08
S95	947	(XML SAME schema same version\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:33
S96	560	S95 and (document SAME (fragment\$1 or segment\$1 or element\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:28
S97	269	S96 and metadata	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:17
S98	62	S97 and broadcast\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:18
S99	41	S98 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:15
S10 0	4	S99 and ((upper or lower) NEAR3 (structure\$1 or fragment\$1 or element\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:29
S10 1	562	S95 and (document SAME (region or fragment\$1 or segment\$1 or element\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:03
S10 2	48	S101 and ((upper or lower) NEAR3 (region or structure\$1 or fragment\$1 or element\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:06
S10 3	21	S102 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:35
S10 4	8	S102 and (broadcast\$3 and metadata)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:34



## EAST Search History

S10 5	6	S103 and (broadcast\$3 and metadata)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:31
S10 6	1003	(XML AND schema AND (version\$3 or updat\$3) AND broadcast\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:33
S10 7	436	S106 and (broadcast\$3 and metadata)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:34
S10 8	19	S107 and ((upper or lower) NEAR3 (region or structure\$1 or fragment\$1 or element\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 18:35
S10 9	15	S108 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:07
S11 0	69168	(document SAME (region\$1 or fragment\$1 or segment\$1 or element\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:03
S11 1	8773	S110 and XML	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:04
S11 2	307	XML SAME metadata SAME version	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:11
S11 3	3807	XML AND metadata AND version	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:10
S11 4	6668	S110 and ((upper or lower) NEAR3 (region or structure\$1 or fragment\$1 or element\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:06
S11 5	103	S113 and S114	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:07
S11 6	52	S115 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:55

## EAST Search History

S11 7	14	S112 and S114	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:13
S11 8	7	S117 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:08
S11 9	907	XML AND metadata AND version AND broadcast\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:10
S12 0	1	XML SAME metadata SAME version SAME broadcast\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:11
S12 1	29	S114 and S119	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:13
S12 2	25	S121 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/07 19:14
S12 3	1853	((upper or lower) NEAR4 (structure\$1 or fragment\$1 or element\$1 or region\$1)) SAME document	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:40
S12 4	8052	LI and XML	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:15
S12 5	155	S123 and XML	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:40
S12 6	84	S125 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:23
S12 7	491260	((upper or lower) NEAR4 (structure\$1 or fragment\$1 or element\$1 or region\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:35
S12 8	60	S127 and (XML NEAR4 metadata)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:41

## EAST Search History

S129	24	S128 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:56
S130	100223	document SAME (frame\$1 or region\$1 or segment\$1 or section\$1 or element\$1 or structure41)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:56
S131	73330	S130 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:55
S132	1514	S131 and (XML and metadata)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:57
S133	1224	S132 and version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:58
S134	323	S133 and broadcast\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:59
S135	0	S134 and (uppor and lower)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 10:58
S136	0	("2003/0009472").URPN.	USPAT	OR	ON	2006/10/09 11:30
S137	0	("2005/0154983").URPN.	USPAT	OR	ON	2006/10/09 11:41
S138	1	XML SAME metadata SAME version\$3 SAME broadcast\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:33
S139	47	metadata SAME version\$3 SAME broadcast\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:33
S140	321	XML SAME metadata SAME version\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:34
S141	90	S140 and broadcast\$3	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:34

## EAST Search History

S14 2	21491677	L30and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:46
S14 3	57	S141 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:41
S14 4	5	S143 and ((upper or lower) NEAR4 (structure\$1 or fragment\$1 or element\$1 or region\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:36
S14 5	57	S143 and (structure\$1 or fragment\$1 or element\$1 or region\$1)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:37
S14 6	21491691	S139 (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:46
S14 7	33	S139 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:46
S14 8	81	document SAME version\$3 SAME (time\$stamp or date\$stamp)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:55
S14 9	64	S148 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 12:56
S15 0	53	S149 and (fragment\$1 or region\$1 or section\$1 or element\$1)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 13:02
S15 1	54	S149 and (frame or fragment\$1 or region\$1 or section\$1 or element\$1)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 13:02
S15 2	27	S149 and (frame)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/10/09 13:02
S15 3	20	metadata SAME broadcast\$3 SAME XML SAME schema	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:45

## EAST Search History

S15 4	3	S153 and (version\$3 and (dateTime or time\$stamp))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 16:46
S15 5	3	S154 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 16:56
S15 6	2	"20030009472"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 16:49
S15 7	0	("2003/0009472").URPN.	USPAT	OR	ON	2007/03/24 16:50
S15 8	1200	XML AND metadata	USPAT	OR	ON	2007/03/24 16:51
S15 9	509	XML SAME metadata	USPAT	OR	ON	2007/03/24 16:51
S16 0	22045	document with (element\$1 or fragment\$1 or structure\$1)	USPAT	OR	ON	2007/03/24 17:33
S16 1	7818	S160 and (upper and lower)	USPAT	OR	ON	2007/03/24 16:53
S16 2	61	S159 and S161	USPAT	OR	ON	2007/03/24 17:04
S16 3	59	S161 and (version\$3 with ((date and time) or time\$stamp))	USPAT	OR	ON	2007/03/24 16:55
S16 4	5	S159 and S163	USPAT	OR	ON	2007/03/24 17:05
S16 5	5	S164 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:04
S16 6	111	S158 and S161	USPAT	OR	ON	2007/03/24 17:04
S16 7	109	S166 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:53
S16 8	109	S167 and S160	USPAT	OR	ON	2007/03/24 17:05
S16 9	109	S160 and S167	USPAT	OR	ON	2007/03/24 17:06
S17 0	109	S161 and S167	USPAT	OR	ON	2007/03/24 17:06
S17 1	38	S170 and (television and schema)	USPAT	OR	ON	2007/03/24 17:08

## EAST Search History

S17 2	36	S171 and syntax	USPAT	OR	ON	2007/03/24 17:09
S17 3	375	document and ((element\$1 or fragment\$1 or structure\$1) near version)	USPAT	OR	ON	2007/03/24 17:44
S17 4	40	S173 and metadata	USPAT	OR	ON	2007/03/24 17:35
S17 5	1	S173 and ((broadcast\$3 or television) near metadata)	USPAT	OR	ON	2007/03/24 17:37
S17 6	122	metadata SAME broadcast\$3 SAME XML	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:52
S17 7	8	S176 and ((fragment or element or structure) near (document or file))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:48
S17 8	9	S176 and ((fragment or element or structure) near (version\$3 or updat\$3))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:49
S17 9	6	S178 and schema	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:49
S18 0	5	S179 and television	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:49
S18 1	4	S180 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:49
S18 2	761	metadata AND broadcast\$3 AND multi\$media and XML	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:53
S18 3	434	S182 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:54
S18 4	405	S183 and (version\$3 or updat\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:55

## EAST Search History

S18 5	137	S184 and schema	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:56
S18 6	83	S184 and (upper and lower and (time\$stamp or (date and time)))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 17:59
S18 7	83	S186 and (fragment or element or structure)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 18:23
S18 8	14	S187 and (XML near schema)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 18:01
S18 9	1	("2005/0193408").URPN.	USPAT	OR	ON	2007/03/24 18:22
S19 0	2	("6751623").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/03/24 19:47
S19 1	1581	metadata with version	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:22
S19 2	1087	S191 and (time\$stamp or (time and date))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:23
S19 3	566	S192 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:29
S19 4	197	S193 and (updat\$3 with (fragment or element or structure))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:25
S19 5	217	S193 and (updat\$3 with metadata)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:25
S19 6	102	S194 and (updat\$3 with metadata)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:26

## EAST Search History

S19 7	90	S196 and ((updated or version) with time)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:26
S19 8	26	S197 and ((updated or version) with date)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:40
S19 9	26	S198 and (@ad<"20021114" or @rlad<"20021114")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:29
S20 0	2	S198 and XML	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/24 20:40




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Most of the work on XML query and search has stemmed from the publishing and database communities, mostly for the needs of business applications. Recently, the Information Retrieval community began investigating the XML search issue to answer information discovery needs. Following this trend, we present here an approach where information needs can be expressed in an approximate manner as pieces of XML documents or "XML fragments" of the same nature as the documents that are being searched. We pr ...

**Keywords:** XML fragments, XML search & retrieval, vector space model2 [Research sessions: Research 8: XML query processing: An algebraic query model for effective and efficient retrieval of XML fragments](#)

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Finding a suitable fragment of interest in a nonschematic XML document with a simple keyword search is a complex task. To deal with this problem, this paper proposes a theoretical framework with a focus on an algebraic query model having a novel query semantics. Based on this semantics, XML fragments that look meaningful to a keyword-based query are effectively retrieved by the operations defined in the model. In contrast to earlier work, our model supports filters for restricting the size of a ...

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